

Write Carl Brownson about guide to Glass Mtns.

Write author of guide and engine about ammonoids said to be in Wolfcamp.

Glass Mtn. Ammonites
Eosianites modestus (Böse) Uddenites
zone below hill 4815. egl

Neopronoite bakeri M. & F. 1938
Dugout mtn. (Wolfcamp)

Petirochia ganti (Smith) 5 mi NE
of W.C.

Look up *Propmoceras* M. & F. 1938

" " *Uddenites harlani* P. & S.
2 mi. NW of Montgomery Ranch
King loc 95 Nodose M&F 1938

Eothalassoceras keyei Smith
M&F 1938 5 mi. NE of WC
King loc 94

Shumardites uddeni - same loc
as above

Plummerites mertoni (Böse)
W.C. hills west end

Pentrochia longisi King loc. 89
WC. See M+F 1938

Uddenites oweni M+F 1938

5 mi NE of WC.

Darwallites Texanus (Böse) loc 95
below hill 4815 in brown ls.
with wood (not a ss.)

Progerinmites M+F 1938

Eoasianites modestus (Böse)

5 mi NE of WC

Paralegoceras rectilaterale =

Dunbarites South of Arnold Ranch

Teguliferina occurs with goniatites
from South of Arnold Ranch

Lithology of goniatite bed of King
loc 94 ls not a ss but a
brown, granular ls.

Matrix below hill 4815 is soft
granular brown ls. has Spinifer
Texanus. Pentrochia gauti (Smith)
is abundant filled with yellow
calcite. This bed is definitely
not the one collected by Kit
and me.

Bed 13 in hill 4752 is a brown gray granular ls. with ~~Paraceraspistes~~ clt. clt does not seem to be the ss. we collected but might be another bed at the level of the ss or in the suite of bed 13.

King loc below hill 4815 is same kind of rock as above and has ~~Paraceraspistes~~.

a. ~~Paraceraspistes~~ is labelled from bed 9 Wolf Camp section.

Aulosteges wolfcampensis in King locs. 198, 85, 88 (ammonoid bed) 201, 71, 86?

R. wolfcampensis from below hill 4815 (loc. 94) = fine gr. ductus

(D)

Blocks from Glass Mtns. 1949

702 un	92	5
703 C	333	1
703d	430	1
703a	470	2
Pinery	700	3
Getaboy	406	1
Hamar	688	2
7066	596	4
W4	635	6
706c	743	7
707e	5093	3
HR		12
		57

2 boxes 373
5466

Pictures

- ✓ 1-2. Split tank from east
- ✓ 3 702c knot
- ✓ 4 Anosteges ledge
- ✓ 5-6 Upper heavy bed of Leonard.
- ✓ 7-8. Anosteges of Mtn front
- ✓ 9 "
- ✓ 10 - Leonard Mtn. from SE
- 11 - 706e
- 12

Uddenite zone shale seen on both sides of dikes at NE end of Leonard Mtn. The cliffs of conglomerate may be Wolfcamp, not Hess as King maps them.

84.96	
112.13	Cumulus - heap
99.78	
72.38	
439.71	
115.31	
<u>93.50</u>	950.00
637.77	
100.00	
112.00	
120.00	
<u>80.00</u>	
949.77	

0747

22

Blocks

26	-	176
27	-	77
28	-	97
29	-	112
30	-	122
31	-	96
32	-	147
33	-	80
34	-	115
35	-	111
36	-	158
37	-	149
38	-	170
39	-	99
40	-	79
41	-	244
42	-	151
43	-	121
44	-	254
45	-	137
46	-	93
47	-	70

25

Boxes

1	-	182
2	-	217
3	-	171
4	-	195
5	-	195
6	-	219
7	-	346
8	-	357
9	-	234
10	-	238
11	-	217
12	-	191
13	-	242
14	-	240
15	-	193
16	-	362
17	-	312
18	-	342
19	-	223
20	-	260
21	-	225
22	-	397
23	-	377
24	-	168
25	-	298

Trip with Leebink
1948

6401
2858
9259

New Numbers

J4 4900' (Brooks Range?) 169-3

F5 of June 15, 1951 Folded beds on Ls. 90, 718b ¹⁶⁹⁻⁴

Jy 3⁴ - 1951 169-4 also Leptod. bed in Ls. 2 718c

June 28 below heavy ledge mapped as Uddenites ¹⁶⁹⁻⁴ halfway up slope 169-4

F3 of Jy 25 1952 169-5 Guadalupe ~~80-7~~ ⁸⁰⁻⁷ ~~check~~

Wk 53 S side Road canyon 718d $\frac{1}{2}$ miles w of east mouth ¹⁶⁹⁻⁴
169-11

Beds 5-9 of WC Slope opposite canyon 718e and W.C. hills 1948 ✓

M215 = Corals N end | M28 = 711x is fusulinic bed
high on W. flank L.M.

M215 = 704 d.

M234 = 718 f

F4 Jy 25, 1952 = Singapore Check date

Lower Miss. South of Lenox 1941 - check east side Dogout
169-8 ~~7234~~ ⁷²³⁴ check

F2 of J15-57 Lower Pinnacles 172-11 718g

J15 1951 Dol with Pinnacles) 1718h 5021 (same as above?)
173-8 }

F1 of J15 Bowlder State

D04 WC Fusulines from Ls. ledge in gray shale
50-75' above base to egl. 7/10/45. 718 f

F3 June 16 1951 173-13 718i

Leptod. bed on Ls. #2 of WC = 701A-

720x sent

Barner Wilde

= 721e

These are
same locality

1952 field numbers.

Set. Jy 1552 = Newell 600

732 Set. Jy 1552 = Getaway, just S. of road $\frac{1}{2}$ mile
west of bend at elevation 5316.

Set. Jy 1552 F2 = Getaway, 0.4 mile S of road, $\frac{1}{2}$ mile
728 west of road bend at 5316. Just S of last S in
Guadalupe Pass. Newell 512

Jy 1552 F3 = Hegler Ranch, $\frac{1}{4}$ mile 555° W of ranch house
733 up small canyon - Newell 398 Pinery

Jy 1552 F4 Mid Pinery $\frac{1}{2}$ mi. S of Hegler Ranch.

734

Jy 1552 F5 100 yds S. of F3 Jy. 1552

735

Jy 1552 F6 1 mile N of Hegler Ranch, Pinery

736

Jy 16 Big Canyon, N side, $\frac{1}{4}$ mile up from mouth.

737

738 Tavar - McKittinch Canyon near mouth.

709c Beaded Leptodus bed east of Sullivan Peak

707h " " ^{8/18/1950} ~~Decie Ranch~~ ^{8/10/1945}

707ha J 18 productid bed.

Sponge beds east of Clay Slide 1950

708c J 9² Leonard Knot 2 1/4 mi E of Head Gate 1950

Leonard . . with Perimites, hill on east side
Sullivan Ranch road. 1950

Uddenites Scachinella west, east end of Knot
8/19 1951

~~Remember most of 707a especially from
loose block & locate near 707m, n.~~

Scachinella in shale J 17' 1951

1 - WC87-7; DC1-1; ST-4.
 2 - WC87-13; WC2-1; WC9-2; WI-4.
 3 - WI4-6; ST-6; DC2-12; DC1-4; DC4-1; DC1'-1; 41-2; ST-5.
 4 - 41-2; WC2-10; DC1-1.
 5 - W3-5; 41-1; ST-1; WI-1; WC9-3.
 6 - misc - small items

7 - W3'-7
 8 - W3'-5
 9 - W3'-5
 10 - W3'-6
 11 - WC2-3; WC87-2; DC1-7; DC3-1; DC4-2; W3-1; 708-3.
 12 - W3'-1; W2-7; MI-1; ULWR-3; WC9-1.
 13 - W2-7; DC1-1; ULWR-1; WC9-1.
 14 - WC9-11; W4-6.
 15 - 41-3; WC2-2; DC1-1; DC5-1; WI-4; WC9-1.
 16 - K124-5

17 - 41-2; WI-2; K124-3; ULWR-2; WC9-1; DC4-9.
 18 - WI-1; DC4-3; WC9-1; 708-1; ULWR-8.

19 - DC4 - many.

20 - K124-3; W4-1; ULWR-7; ULWR-4.
 21 - WI-8; DC4B-1; DC4-2; 41-2; DC4a-1; ULWR-1; W4-1; ULWR-4.
 22 - K124-3; ULWR-2; ST4-2; WC9-1; ST-4.
 23 - WC9-3; W4-1; ULWR-2; WC2-1.

24 - ULWR-6.

25 - ULWR-5; K124-1; ULWR-7.
 26 - ULWR-4; WC2-1; STM-1; ST-2.

27 - ULWR-1; ST4-2; ULWR-1.

28 - W2-11

29 - W2-7

30 - WL-4; ST4-1; W3-5.

31 - W3-2; DC4-5; WL-1
 32 - W3-1; WC9-1; WL-1; DC4-2.
 33 - WL-2; W2-1; W3-1; DC4-2; STM-1; WC2-1.
 34 - ST4-2; W4-1; STM-3; DC4A-1; W2-1.
 35 - ULWR-1; WL-1; STL-1; STM-2.

36 -
37 -
38 -
39 -

11
 15
 17
 19
 20
 24
 26
 38
 39

1957

S11 - 709d	142-13	S14 ⁷ = 714c	142-3
S11 ¹ - 709e	142-13	S14 ⁸ = 714d	142-12
S11 ² - 709f	142-15	S14 ⁹ = 714e	142-3, 8
S11 ³ - 709g	142-13	S14 ¹⁰ = 714f	142-12
S11 ⁴ - 709h	142-13	S14 ¹¹ = 714g	142-15
S11 ⁵ - 709i	142-11	S15 = 714h	142-15
S11 ⁶ - 709j	142-11	S16 = 714i	142-9
S11 ⁷ - 709k	142-12	S16 ¹ = 714j	142-15
S11 ⁸ - 709m	142-13	S16 ² = 714k	142-6
S12 - 709n	142-13	S16 ³ = 717u	
S12 ¹ - 709o	142-11, 13	S17 = 714m	142-13
S13 ¹ - 709p	142-12	S17 ¹ = 714n	142-12
S13 ² - 709q	142-15	S17 ³ = 714o	142-6, 10
S13 ³ - 709r	142-2	S18 ¹ = 714p	142-1, 4, 6, 14
S13 ⁴ = 709s	142-12	S18 ² = 714q	142-7, 12, 13
S13 ⁵ = 709t	142-8	S18 ³ = 714r	
S13 ⁶ = 709u	142-2, 142-3, 7, 12, 14	S18 ⁴ = 714s	142-13
S14 = 709v	142-12	S19 = 708e	
S14 ¹ = 709w	142-9	S19 ³ = 714t	142-2, 4
S14 ² = 709x	142-13	S20 = 707a	142-1, 7, 8, 14
S14 ³ = 709y	142-13	S22 = 714u	142-4
S14 ⁴ = 709z	142-8	S22 ¹ = 714v	142-6
S14 ⁵ = 714a	142-7	S22 ⁴ = 714w	142-4
S14 ⁶ = 714b	142-12	S22 ⁵ = 714x	142-13

1957 Con'd

S22⁶ = 714y 142-13

S23¹ = 714z 142-9

S23² = 715f 142-3, 9

S24¹ = 715g

S24⁴ = 715h 142-13, 14

S25 = 715i 142-1, 14

S24 = 715j (25¹ above base) 142-3, 9, 13

S24 = 715k (30¹ above base) 142-3

S24⁶ = 715m

S20¹ = 715b

S23 = 715n 142-9

S24³ = 715o

S24 = 715p 142-11

S16³ = 715q 142-12

G-9-13-1 measured sect. = 715r 142-12

S23³ = 717v

G-9-13-3 measured sect. = 715t 142-12

S24² = 717w

S24⁵ = 715u 142-12

S13 = 715v 142-12

S22² = 715w

J12, '53 = 715x

Leonard (3-4), SE nose hill 4920 = 715 y 142-15

Hill W of Iron Mtn. = 715z 142-7

Aug. 23, 1956 = 713

713a-z available

1958

M11 - 714w	M12 ⁷ = 717a	M20 ⁸ - 711x
M11 ¹ - 710b	M15 ¹ = 717b	M21 ¹ - 711y
M11 ² - 710c	M18 ¹ = 717c	M21 ² - 711z
M11 ³ - 710d	M18 ² - 711c	M21 ⁵ - 712n
M13 ⁵ - 710e	M18 ³ - 711d	M21 ⁶ - 712o
M12 - 710f	M18 ⁴ - 711e	M21 ⁷ -
M12 ¹ - 710g	M18 ⁶ - 711f	M21 ⁸ - corals
M12 ² - 710h	M18 ⁷ - 711g	M22 - 712p
M12 ³ - 710i	M18 ⁸ - 711h	M22 ¹ - 712q
M12 ⁴ - 710j	M18 ⁹ - 711i	M22 ² - 712r
M12 ⁵ - 710k	M18 ¹⁰ - 711j	M22 ³ - 712s
M12 ⁶ - 710-1	M19 - 717i	M22 ⁴ - 712t
M13 ¹ - 710m	M19 ¹ - 711k	M22 ⁵ - 712u
M13 ² - 710n	M19 ² - 711-1	M22 ⁶ - 712v
M13 ³ - 710o	M19 ³ - 711m	M22 ⁷ - 717g
M13 ⁴ - 710p	M19 ⁴ - 711n	M22 ⁸ - 717f
M13 ⁵ - 717e	M19 ⁵ - 711o	M23 = 701h
M14 ¹ - 710q	M19 ⁶ - 711p	M23 ¹ - 712w
M14 ² - 710r	M20 - 711q	M23 ² - 712x
M14 ³ - 710s	M20 ¹ = 709	M23 ³ - 712y
M15 ² - 710t	M20 ² - 711r	M23 ⁴ - 718f
M15 ⁴ - 710u	M20 ³ - 711s	M23 ⁵ - 712z
M16 ¹ - 710v	M20 ⁴ - 711t	M24 ¹ - 716a
M17 ⁹ - 710w	M20 ⁵ - 711u	M24 ² - 716b
M17 ¹² - 716y	M20 ⁶ - 711v	M24 ³ - 716c
M15 ³ = 716z	M20 ⁷ - 711w	M24 ⁴ - 716d

1958 Cont'd

M24⁵ - 716e

M24⁶ - 716f

M24⁷ - 716g

M24⁸ - 716h

M24¹² - 716i

M24¹⁴ - 716j

M24¹⁵ - 716k

M25¹ - 716-l

M25² - 716m

M26 = 702un

M27 - 716n

M27¹ - 716o

M27² - 702m

M28 = 715i

M28¹ - 716p

M28² - 716q

M28³ - 716r

M28⁴ - 716s

M28⁵ - 716t

M28⁶ - 716u

M29 - 716v

M30 - 716w

M30¹ - 716x

M30² - 702e

M30³ = 717d

M24 = 718s

1958

M11 - 714w	M12 ⁷ - 717a	M20 ⁸ - 711x
M11 ¹ - 710b	M15 ¹ - 717b	M21 ¹ - 711y
M11 ² - 710c	M18 ¹ - 717c	M21 ² - 711z
M11 ³ - 710d	M18 ² - 711c	M21 ⁵ - 712n
M13 ⁵ - 710e	M18 ³ - 711d	M21 ⁶ - 712o
M12 - 710f	M18 ⁴ - 711e	M21 ⁷ -
M12 ¹ - 710g	M18 ⁶ - 711f	M21 ⁸ - corals
M12 ² - 710h	M18 ⁷ - 711g	M22 - 712p
M12 ³ - 710i	M18 ⁸ - 711h	M22 ¹ - 712q
M12 ⁴ - 710j	M18 ⁹ - 711i	M22 ² - 712r
M12 ⁵ - 710k	M18 ¹⁰ - 711j	M22 ³ - 712s
M12 ⁶ - 710-1	M19 - 717i	M22 ⁴ - 712t
M13 ¹ - 710m	M19 ¹ - 711k	M22 ⁵ - 712u
M13 ² - 710n	M19 ² - 711-1	M22 ⁶ - 712v
M13 ³ - 710o	M19 ³ - 711m	M22 ⁷ - 717g
M13 ⁴ - 710p	M19 ⁴ - 711n	M22 ⁸ - 717f
M13 ⁵ - 717e	M19 ⁵ - 711o	M23 - 701h
M14 ¹ - 710q	M19 ⁶ - 711p	M23 ¹ - 712w
M14 ² - 710r	M20 - 711q	M23 ² - 712x
M14 ³ - 710s	M20 ¹ - 709	M23 ³ - 712y
M15 ² - 710t	M20 ² - 711r	M23 ⁴ - 718f
M15 ⁴ - 710u	M20 ³ - 711s	M23 ⁵ - 712z
M16 ¹ - 710v	M20 ⁴ - 711t	M24 ¹ - 716a
M17 ⁹ - 710w	M20 ⁵ - 711u	M24 ² - 716b
M17 ¹² - 716y	M20 ⁶ - 711v	M24 ³ - 716c
M15 ³ - 716z	M20 ⁷ - 711w	M24 ⁴ - 716d

1958 Cont'd

M24⁵ - 716e

M24⁶ - 716f

M24⁷ - 716g

M24⁸ - 716h

M24¹² - 716i

M24¹⁴ - 716j

M24¹⁵ - 716k

M25¹ - 716-1

M25² - 716m

M26 - 702un

M27 - 716n

M27¹ - 716o

M27² - 702m

M28 - 715i

M28¹ - 716p

M28² - 716q

M28³ - 716r

M28⁴ - 716s

M28⁵ - 716t

M28⁶ - 716u

M29 - 716v

M30 - 716w

M30¹ - 716x

M30² - 702e

M30³ - 717d

M24 - 718s

Original
1 carbon

1957

S11 = 709d 142-13

S14⁵ = 714a 142-7

S11' = 709e 142-13

S14⁶ = 714b 142-12

S11² = 709f 142-15

S14⁷ = 714c 142-3

S11³ = 709g 142-13

S14⁸ = 714d 142-12

S11⁴ = 709h 142-13

S14⁹ = 714e 142-3,8

S11⁵ = 709i 142-11

S14¹⁰ = 714f 142-12

S11⁶ = 709j 142-11

S14¹¹ = 714g 142-15

S11⁷ = 709k 142-12

S15 = 714h 142-15

S11⁸ = 709m 142-13

$\sqrt{S16} = 714i$ 142-9

S12 = 709m 142-13

$\sqrt{S16}' = 714j$ 142-15

S12' = 709o 142-11,13.

$\sqrt{S16}^2 = 714k$ 142-6

S13' = 709p 142-12

$\sqrt{S16}^3 = 717u$ - 3

$\sqrt{S17} = 714m$ 142-13

S13² = 709g 142-15

$\sqrt{S17}' = 714n$ 142-12

S13³ = 709n 142-2

$\sqrt{S17}^2 = 714o$ 142-6,10

S13⁴ = 709s 142-12

$\sqrt{S18}' = 714p$ 142-1,4,6¹⁴

S13⁵ = 709t 142-8

$\sqrt{S18}^2 = 714q$ 142-7,12,13

S13⁶ = 709u 142-2,142-3,7,12,14. $\sqrt{S18}^3 = 714r$

S14 = 709v 142-12

$\sqrt{S18}^4 = 714s$ 142-13

S14' = 709w 142-9

$\sqrt{S19} = 708e$

S14² = 709x 142-13

$\sqrt{S19}^3 = 714t$ = 142-2,4

S14³ = 709y 142-13

$\sqrt{S20} = 707a$ 142-1,7,8¹⁴

S14⁴ = 709z 142-8

$\sqrt{S22} = 714u$ 142-4

$$\checkmark S_{22}' = 714v \quad 142-6$$

$$\checkmark S_{22}^4 = 714w \quad 142-4$$

$$\checkmark S_{22}^5 = 714x \quad 142-13$$

$$\checkmark S_{22}^6 = 714y \quad 142-13$$

$$\checkmark S_{23}' = 714z \quad 142-9$$

$$\checkmark S_{23}^2 = 715f \quad 142-3,9$$

$$\checkmark S_{24}' = 715g$$

$$\checkmark S_{24}^4 = 715h \quad 142-13,14$$

$$S_{25} = 715i \quad 142-1,14$$

$$\checkmark S_{24} = 715j \quad (25' \text{ above base}) \quad 142-3,9,13$$

$$\checkmark S_{24} = 715k \quad (30' \text{ above base}) \quad 142-3$$

$$\checkmark S_{24}^6 = 715m$$

$$\checkmark S_{20}' = 715b$$

$$\checkmark S_{23} = 715n \quad 142-9$$

$$\checkmark S_{24}^3 = 715o$$

$$S_{24} = 715p \quad 142-11$$

$$S_{16}^3 = 715q \quad 142-12$$

$$G-9-13-1 \text{ measured sect.} = 715r \quad 142-12 \quad \checkmark$$

$$S_{23}^3 = 717v$$

$$G-9-13-3 \quad " \quad " = 715t \quad 142-12 \quad \checkmark$$

$$S_{24}^2 = 717w$$

$$S_{22}^3 \quad (\text{What number?})$$

$$\cancel{S_{19}^3} \quad " \quad " \quad \cancel{S_{19}}$$

$$\checkmark S_{24}^5 = 715u \quad 142-12$$

$$S_{13} = 715v \quad 142-12$$

$$\checkmark S_{22}^2 = 715w$$

$$S_{12}, S_3 = 715x$$

$$\text{Leonard (3-4), SEmose Hill 4920} = 715y \quad 142-15$$

$$\text{Hill w. of down wash} = 715z \quad 142-7$$

$$\text{Aug 23, 1958} = 713$$

713a-2 available

✓ M 11 - 714w ✓ $\checkmark M 15^2 - 710z \times$
 ✓ M 11' - 710b ✓ $\checkmark M 15^4 - 710u \times$ 1958
 ✓ M 11² - 710c ✓ $\checkmark M 16' - 710v \times$
 ✓ M 11³ - 710d \times $\checkmark M 17^9 - 710w \times$
 ✓ M 12 - 710f ✓ $\checkmark M 15^3 - 716z \times$
 ✓ M 12' - 710g \times $\checkmark M 12^7 - 717a \times$
 ✓ M 12² - 710h \times $\checkmark M 15^1 - 717b - 717b$
 ✓ M 12³ - 710i \times
 ✓ M 12⁴ - 710j \times
 ✓ M 12⁵ - 710k ✓
 ✓ M 12⁶ - 710l \times
 ✓ M 13¹ - 710m \times $\checkmark M 18^1 - 717c \times$
 ✓ M 13² - 710n \times $\checkmark M 18^2 - 711e \times$
 ✓ M 13³ - 710o \times $\checkmark M 18^3 - 711d \times$
 ✓ M 13⁴ - 710p \times
 ✓ M 13⁵ - 717e ~~wrong?~~ $\checkmark M 18^4 - 711e \times$
 ✓ M 14¹ - 710g ✓ $\checkmark M 18^6 - 711f \times$
 ✓ M 14² - 710n \times $\checkmark M 18^7 - 711g \times$
 ✓ M 14³ - 710s \times $\checkmark M 18^8 - 711h \times$
 ✓ M 18⁹ - 711i \times

✓ 18¹⁰ - 711j ✓

M19 - 717₂

M19' - 711k ✗

M19² - 711-l ✗

✓ M19³ - 711m ✗

✓ M19⁴ - 711n ✗

✓ M19⁵ - 711o ✓

✓ 19⁶ - 711p ✗

M20 - 711q ✗

20' = 709 check ✓ ✓

20² - 711r ✗

20³ - 711s ✗

20⁴ - 711t ✓

20⁵ - 711u ✗

20⁶ - 711v ✗

20⁷ - 711w ✗

20⁸ - 711x ✗

✓ M21' - 711y ✓

✓ 21² - 711z ✗

✓ 21⁵ - 712m ✗

21⁶ - 712o ✓

21⁸ - corals ✗

✓ M22 - 712p ✗

✓ 22' - 712q ✗

✓ 22² - 712r ✓

✓ 22³ - 712s ✓

✓ 22⁴ - 712t ✗

✓ 22⁵ - 712u ✗

✓ 22⁶ - 712v ✗

✓ 22⁷ - 717g

✓ 22⁸ - 717f

✓ M23 = 701h ✓

✓ 23' - 712w ✓

23² - 712x ✗

23³ - 712y ✗

23⁴ - 718f

23⁵ - 712z ✗

✓ M24¹ - 716a X

✓ 24² - 716b X

✓ 24³ - 716c X

✓ 24⁴ - 716d X

✓ 24⁵ - 716e X

✓ 24⁶ - 716f X

✓ 24⁷ - 716g ✓

✓ 24⁸ - 716h X

✓ 24¹² - 716i X

✓ 24¹⁴ - 716j X

✓ 24¹⁵ - 716k X

M25¹ - 716-l ✓

✓ 25² - 716m X

✓ M26 = 702un ✓

✓ M27 - 716n X

✓ M27¹ - 716o X

✓ M27² - 702m ✓

✓ M28¹ - 716p X

✓ M28⁴ - 716s ✓

✓ 28⁵ - 716t X

✓ 28⁶ - 716u X

✓ M29 - 716v

✓ M30 - 716w

✓ 30¹ - 716x X

✓ M30² - 702e

✓ M30³ = 717d

M24 = 718s

M28 = 715i

✓ 28³ - 716g X

✓ 28³ - 716r X

Huaco, S.D. = 728 d ✓

for 625 = 728 e ✓

629 = 728 f ✓

Apache Canyon = 728 g ✓

between 625 & 629 = 728 h ✓

Mouth of Big Canyon = 728 i ✓

M (McKithick) = 738 b

210 pages

345 208
5000
48
200
192
8

Rattlesnake Canyon	750a ✓	
Daughter	750b ✓	Glass mts start 720b
Carlsbad Cavern	750	
Chinati mts	Wolfgang 728a ✓	
"	Breccia 728b ✓	
"	Fusulines 728c ✓	

Canyon just W entrance to park 750c

Rattlesnake Canyon float 750a'

Jy 10³ = 720i ✓

Jy 10² = 720j

Jy 10¹ = 720k ✓

Jy 10 base = 720l ✓

Jy 10 190 = 720m ✓

Jy 10 200 = 720n ✓

Jy 10 290 = 720s ✓

Jy 10 300 = 720p ✓

Jy 10 347 = 720q ✓

Jy 10 350 = 720r ✓

Jy 10 400 = 720s ✓

Jy 10 485 = 720t ✓

Jy 10 495 = 720u ✓

Jy 12' = 720v ✓

1959

localities

$$Jy 12^2 = 720w \checkmark$$

$$Jy 12^4 = 720y$$

$$Jy 12^5 = 720z$$

$$Jy 12^7 = 721a$$

$$Jy 12^8 \text{ base white ls} = 721b \checkmark$$

$$Jy 12^8 27' \text{ above base} = 721c \checkmark$$

$$Jy 12^8 32' + " = 721d \checkmark$$

$$Jy 12^8 \text{ top of knot} = 721e \checkmark$$

$$Jy 13' = 721f$$

$$Jy 15^2 = 720h \checkmark$$

$$701d\text{-stratifera} = 721g \checkmark$$

$$Jy 12^9 = 721h$$

$$Jy 14^2 = 720d \checkmark$$

$$Jy 15 = 720g \checkmark$$

$$Jy 15' = 728f \checkmark$$

$$\text{Brachinella beds} = 720e$$

~~$$Jy 15^2$$~~

$$Jy 19 \text{ (part)} = 721j$$

$$\text{down} = 721f$$

$$Jy 19 \text{ (block)} = 723a$$